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### ABSTRACT

Device (32) for determining location of a fault in an underground cable causing an earth leakage path from an internal conductor to each at the location of the fault, such that when signal is applied to the conductor, earth leakage signal flows between the earth and conductor at the location of the fault. A multi-frequency signal is applied to the cable, this having at least two frequency components. Probe means (24a, 24b) is positionable to receive the earth leakage signal. A processor (50) rectifies a first component of the earth leakage signal, corresponding to one frequency component of said applied signal, multiplies the rectified first component of the earth leakage signal with a second component of the earth linkage signal, corresponding to another frequency component of the applied signal, and from the result of that multiplication indicates the direction from the device to the fault.

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